

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 April 2002 (11.04.2002)

PCT

(10) International Publication Number
WO 02/28414 A1

(51) International Patent Classification⁷: **A61K 38/16**,
38/17, C07H 21/02, 21/04, C07K 14/435, C12N 5/10,
G01N 33/53

[US/US]; 6521 36th Avenue S.W., Seattle, WA 98126
(US). **SPIES, A., Gregory** [US/US]; 19018 18th Avenue
N.E., Shoreline, WA 98155 (US). **BOYDSTON, Jeremy**
[US/US]; 5210 Woodlawn Avenue N., Seattle, WA 98104
(US).

(21) International Application Number: PCT/US01/31139

(22) International Filing Date: 3 October 2001 (03.10.2001)

(74) Agents: **CHRISTIANSEN, William, T.**; Seed Intellectual
Property Law Group PLLC, Suite 6300, 701 Fifth Avenue,
Seattle, WA 98104-7092 et al. (US).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/684,361	6 October 2000 (06.10.2000)	US
09/685,830	9 October 2000 (09.10.2000)	US
09/785,019	15 February 2001 (15.02.2001)	US
09/938,864	24 August 2001 (24.08.2001)	US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
ZA, ZW.

(71) Applicant (*for all designated States except US*): **CORIXA
CORPORATION** [US/US]; 1124 Columbia Street, Suite
200, Seattle, WA 98104 (US).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG).

(71) Applicant and

(72) Inventor: **GAIGER, Alexander** [AT/US]; 1421 42nd Av-
enue E., Seattle, WA 98112 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MCNEILL, Patri-
cia, D.** [US/US]; 1333 South 290th Place, Federal Way,
WA 98003 (US). **SMITHGALL, Molly** [US/US]; 7217
28th Avenue N.E., Seattle, WA 98115 (US). **MOULTON,
Gus** [US/US]; 7026 23rd Avenue N.E., Seattle, WA
98115 (US). **VEDVICK, Thomas, S.** [US/US]; 124 S.
300th Place, Federal Way, WA 98003 (US). **SLEATH,
Paul, R.** [GB/US]; 1623 Eighth Avenue W., Seattle, WA
98119 (US). **MOSSMAN, Sally** [GB/US]; 2815 N.W.
58th Street, Seattle, WA 98107 (US). **EVANS, Lawrence**

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments
- entirely in electronic form (except for this front page) and
available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY

(57) Abstract: Compositions and methods for the therapy of malignant diseases, such as leukemia and cancer, are disclosed. The compositions comprise one or more of a WT1 polynucleotide, a WT1 polypeptide, an antigen-presenting cell presenting a WT1 polypeptide, an antibody that specifically binds to a WT1 polypeptide; or a T cell that specifically reacts with a WT1 polypeptide. Such compositions may be used, for example, for the prevention and treatment of metastatic diseases.

WO 02/28414 A1